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NOTICE OF ALLOWANCE AND FEE(S) DUE

20350 7590 03/12/2010 TOWNSEND AND TOWNSEND AND CREW, LLP

TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834

EXAMINER					
TRAN, NGUYEN					
ART UNIT	PAPER NUMBER				
2838 DATE MAII ED: 03/12/2/	010				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/541,710 07/08/2005 Hiroshi Usui		082416-001200US	4051				
TITLE OF INVENTION: POWER SUPPLY AND ITS CONTROLLING METHOD							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/14/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	or transmitting ig the Patent, a terwise in Bloo	dvance o	rders and notification a) specifying a new o	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresp rate "F	ondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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SAN FRANCIS	CO, CA 94111-383	1								(Depositor's name)
					L					(Signature)
					L					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		OR ATTORNEY DOCKET NO.		CON	FIRMATION NO.	
10/541,710 TITLE OF INVENTION	07/08/2005 F: POWER SUPPLY AN	D ITS CONTR	OLLING	Hiroshi Usui METHOD			083	2416-001200US		4051
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1516)	\$300		\$0		\$1810		06/14/2010
EXAM	IINER	ART UN	ПТ	CLASS-SUBCLASS	s					
TRAN, N	GUYEN	2838		363-021120						
1. Change of correspondence address or indication of "Fee Address" (37 CFR J. 363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attacked. Fee Address' indication (or "Fee Address" indication form PTO/SB/47 we 0.9-02 or more recent) attached. Use of a Custome Number is required. Namber is required.			ondence m ustomer	or agents OR, alter (2) the name of a seregistered attorney 2 registered patent listed, no name wil	ne of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is a mem will be printed.					
	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no eletion of this fo	assignee orm is NO	data will appear on the control of t	he pagan a	ntent. If an assign assignment. and STATE OR C	OUNT			
4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p	ermitted)	4	b. Payment of Fee(s): (A check is enclos Payment by credi The Director is he overpayment, to I	ed. t care	1. Form PTO-2038	is atta			
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20350	7590 03/12/2010		EXAMINER				
TOWNSEND A	AND TOWNSEND AT	TRAN, NGUYEN					
	ADERO CENTER		ART UNIT	PAPER NUMBER			
EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			2838 DATE MAILED: 03/12/201	0			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/541,710	USUI, HIROSHI	
Examiner	Art Unit	
NGLIVEN TRAN	2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 02/04/10.
- 2. The allowed claim(s) is/are 3-11.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- 3. Information Disclosure Statements (PTO/SB/08),
- 4. T Examiner's Comment Regarding Requirement for Deposit
- Pacer No./Mail Date

of Biological Material

Paper No./Mail Date T Examiner's Amendment/Comment

Examiner's Statement of Reasons for Allowance

5. Notice of Informal Patent Application 6 Interview Summery (PTO-413)

9.

☐ Other

/Bao Q. Vu/ Primary Examiner, Art Unit 2838

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DETAILED ACTION

 This action is in response to the request for Continued Examination filed 02/04/10. Claims 3-11 are pending; Claims 1 and 2 are cancelled.

Continued Examination

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/04/10 has been entered.

Allowable Subject Matter

Claims 3-11 are allowed.

The following is an examiner's statement of reasons for allowance: In regard to claim 3, the prior art fails to disclose a charge control section (17) which stops charging of said capacitor (C3) from said charge circuit section (13, 14, R21) when the drive control voltage to be supplied to said power line of said drive control section (6) becomes equal to or greater than a preset voltage value; an operation stop section (15) which detects an output current to be supplied to said load, compares a current value of said detected output current with [[said]]a preset current value for determining whether said load is light or not, and stops an operation of said drive control section (6) when the

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current value of said detected output current becomes less than the preset current value for determining whether said load is light or not; and a time measuring section (16) which measures a time after said operation stop section (15) stops the operation of said drive control section (6), and outputs a switch-on signal to said charge control section (17) when a preset time elapses since measuring, wherein said charge control section (17) resumes charging said capacitor from said charging circuit when said switch-on signal is output from said time measuring unit (16).

In regard to claim 8, the prior art fails to discloses a charge circuit section (14, R21) which supplies a current to said capacitor (C3) from said DC voltage input section (2) to charge said capacitor wherein said DC voltage input section (2) starts inputting a DC voltage to said primary winding of said transformer (T); an auxiliary power supply section (7) which rectifies a voltage generated on said third winding (n3) of said transformer (T) and applies the rectified voltage to said capacitor (C3) to charge said capacitor (C3); an operation stop section (15) which detects an output current to be supplied to said load, compares a current value of said detected output current with a preset current value for determining whether said load is light or not, and stops an operation of said drive control section (6) when the current value of said detected output current becomes less than the preset current value for determining whether said load is light or not; a discharge control section (13, 17) which discharges a voltage of said capacitor (C3) when a discharge instruction signal is supplied; and a time measuring section (16) which supplies said discharge instruction signal to said discharge control section (13, 17) when said operation stop section (15) stops an operation of said drive

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control section (6), and stops supplying the discharge instruction signal to said discharge control section (13, 17) when a preset time elapses after time measuring wherein said discharge control unit (13, 17) causes said capacitor (C3) to discharge during the supply of the discharge signal from said time measuring section (16), and then causes the charge circuit section (14R, R21) to restart charging to said capacitor (C3).

In regard to claim 11, the prior art fails to disclose a drive control section (6) which is activated upon a drive control voltage being applied to a power supply line and said drive control voltage exceeding a preset value, generates said drive control signal in accordance with a signal indicating the output voltage and supplies said generated drive signal to said voltage generating section (2, 3, 4) to drive said voltage generating section (2, 3, 4) to supply the output voltage to the load, wherein upon startup of said power supply, said drive control voltage is applied to said power supply line of said drive control section (6) to activate said drive control section (6) to supply the output voltage to said load from said voltage generating section (2, 3, 4), a current flowing in the load is monitored, generation of said drive signal by said drive control section (6) is stopped and by lowering said drive control voltage, operation of said drive control section (6) is stopped when said current becomes less than a preset current value, and after a predetermined time elapses since stopping of the operation of said drive control section, said drive control voltage is raised to reactivate said drive control section (6).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/541,710

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGUYEN TRAN whose telephone number is (571)270-1269. The examiner can normally be reached on M-F 7:30-5:00, OFF every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica Lewis can be reached on 571-272-1838. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nguyen Tran/ Examiner, Art Unit 2838 Application/Control Number: 10/541,710 Page 6

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/Bao Q. Vu/ Primary Examiner, Art Unit 2838 February 23, 2010